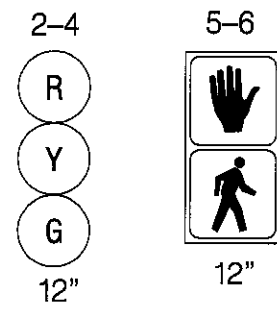


MD 198 IS ASSUMED TO RUN  
IN AN EAST-WEST DIRECTION

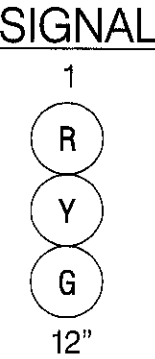
#### EXISTING SIGNALS



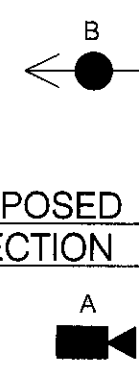
#### EXISTING SIGNS



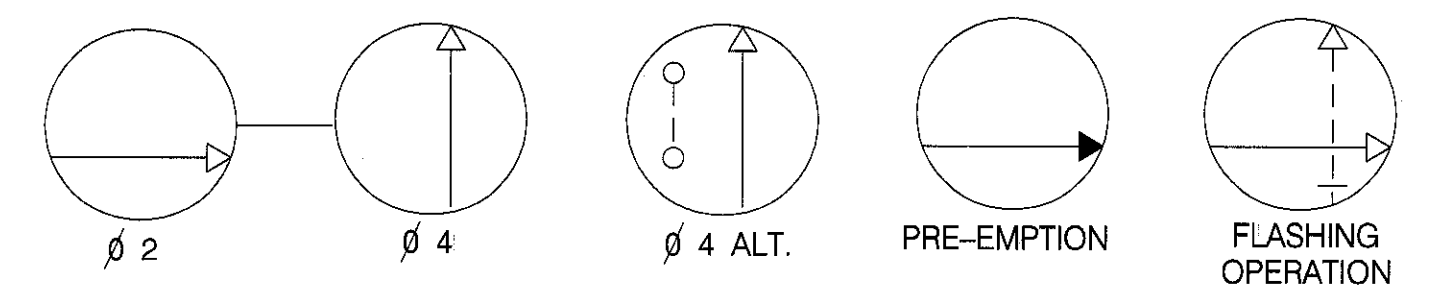
#### PROPOSED BLACKFACE SIGNAL



#### PROPOSED OPTICOM EYE

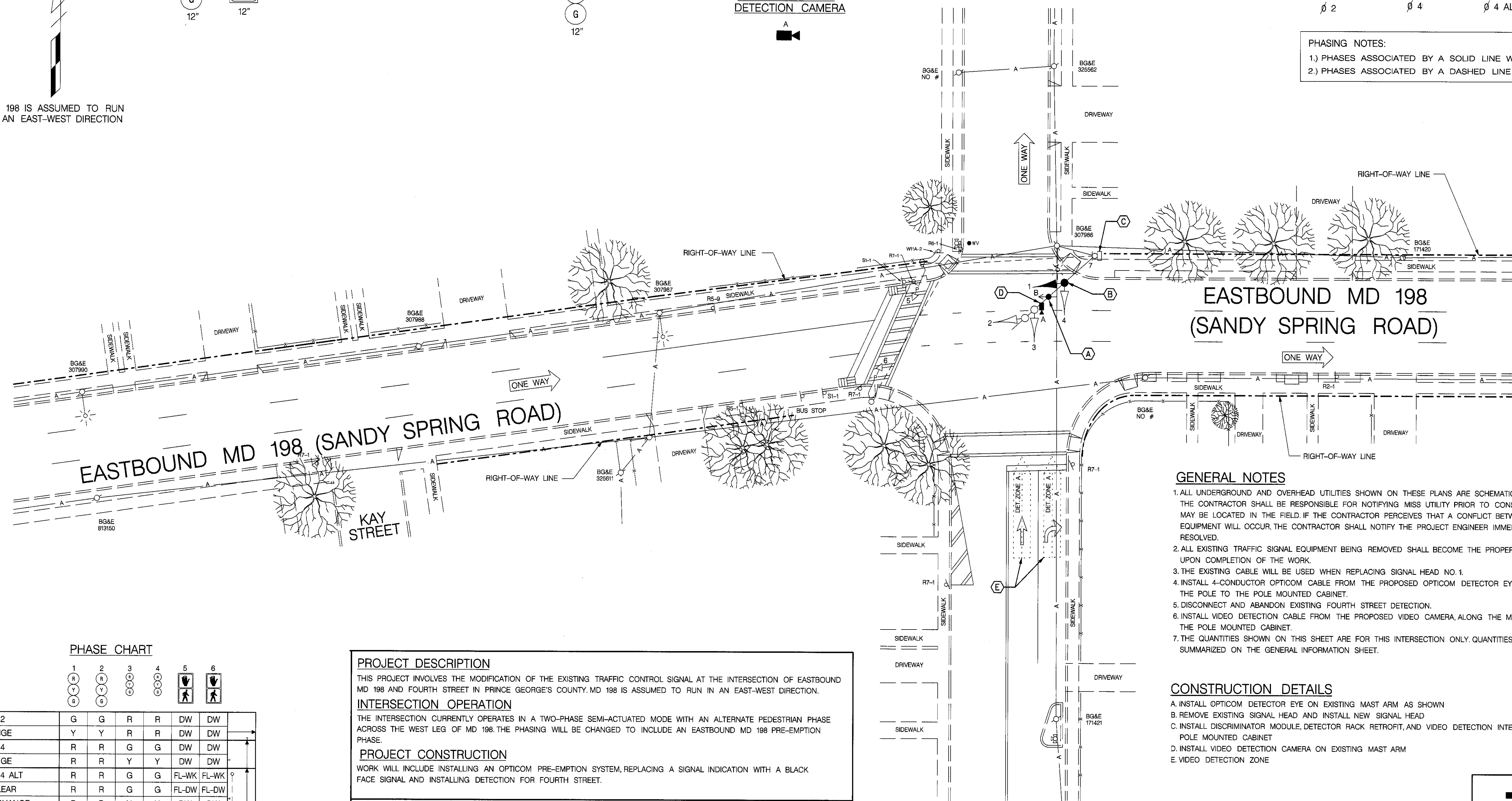


#### NEMA PHASING

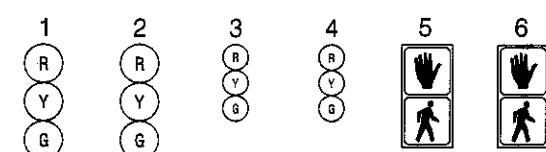


#### PHASING NOTES:

- 1.) PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
- 2.) PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.



#### PHASE CHART



PHASE	1	2	3	4	5	6
PHASE 2	G	G	R	R	DW	DW
2 CHANGE	Y	Y	R	R	DW	DW
PHASE 4	R	R	G	G	DW	DW
4 CHANGE	R	R	Y	Y	DW	DW
PHASE 4 ALT	R	R	G	G	FL-WK	FL-WK
PED CLEAR	R	R	G	G	FL-DW	FL-DW
4 ALT CHANGE	R	R	Y	Y	DW	DW
PRE-EMPTION	G	G	R	R	DW	DW
CHANGE	Y	Y	R	R	DW	DW
FLASHING OPERATION	FLY	FLY	FLR	FLR	DARK	DARK

#### PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF EASTBOUND MD 198 AND FOURTH STREET IN PRINCE GEORGE'S COUNTY. MD 198 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

#### INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A TWO-PHASE SEMI-ACTUATED MODE WITH AN ALTERNATE PEDESTRIAN PHASE ACROSS THE WEST LEG OF MD 198. THE PHASING WILL BE CHANGED TO INCLUDE AN EASTBOUND MD 198 PRE-EMPTION PHASE.

#### PROJECT CONSTRUCTION

WORK WILL INCLUDE INSTALLING AN OPTICOM PRE-EMPTION SYSTEM, REPLACING A SIGNAL INDICATION WITH A BLACK FACE SIGNAL AND INSTALLING DETECTION FOR FOURTH STREET.

#### EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE SHA.

ITEM NO.	QUANTITY	DESCRIPTION
9001	1 EA	DETECTOR RACK POWER SUPPLY
9046	1 EA	DETECTOR RACK RETROFIT
9086	1 EA	VIDEO DETECTION INTERFACE EQUIPMENT, 1-4 CAMERAS

#### EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO OOTS FOR APPROVAL PRIOR TO INSTALLATION.

ITEM NO.	QUANTITY	DESCRIPTION
8007	1 EA	FURNISH AND INSTALL CONTROL CABLE, 100 FT., VIDEO DETECTION CAMERA TO CONTROLLER
8058	1 EA	FURNISH AND INSTALL VIDEO DETECTION CAMERA
8059	1 EA	FURNISH AND INSTALL DISCRIMINATOR MODULE, 4 CHANNEL, NO. 76
8061	1 EA	FURNISH AND INSTALL OPTICOM NO. 721 DETECTOR EYE
8077	3 EA	FURNISH AND INSTALL 12 IN. VEHICLE TRAFFIC SIGNAL HEAD SECTION
8079	75 LF	FURNISH AND INSTALL 4-CONDUCTOR OPTICOM CABLE

#### LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	_____ A _____
ELECTRICAL	_____ E _____
TELEPHONE	_____ T _____
GAS	_____ G _____
SEWER	_____ S _____
WATER	_____ W _____
CABLE TV	_____ TV _____

#### GENERAL NOTES

1. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THE CONFLICT MAY BE RESOLVED.
2. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT BEING REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE WORK.
3. THE EXISTING CABLE WILL BE USED WHEN REPLACING SIGNAL HEAD NO. 1.
4. INSTALL 4-CONDUCTOR OPTICOM CABLE FROM THE PROPOSED OPTICOM DETECTOR EYE, ALONG THE MAST ARM, DOWN THE POLE TO THE POLE MOUNTED CABINET.
5. DISCONNECT AND ABANDON EXISTING FOURTH STREET DETECTION.
6. INSTALL VIDEO DETECTION CABLE FROM THE PROPOSED VIDEO CAMERA, ALONG THE MAST ARM, DOWN THE POLE TO THE POLE MOUNTED CABINET.
7. THE QUANTITIES SHOWN ON THIS SHEET ARE FOR THIS INTERSECTION ONLY. QUANTITIES FOR THE ENTIRE PROJECT ARE SUMMARIZED ON THE GENERAL INFORMATION SHEET.

#### CONSTRUCTION DETAILS

- A. INSTALL OPTICOM DETECTOR EYE ON EXISTING MAST ARM AS SHOWN
- B. REMOVE EXISTING SIGNAL HEAD AND INSTALL NEW SIGNAL HEAD
- C. INSTALL DISCRIMINATOR MODULE, DETECTOR RACK RETROFIT, AND VIDEO DETECTION INTERFACE EQUIPMENT INTO EXISTING POLE MOUNTED CABINET
- D. INSTALL VIDEO DETECTION CAMERA ON EXISTING MAST ARM
- E. VIDEO DETECTION ZONE

**TRAFFIC CONCEPTS, INC.**  
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Gambrills, MD 21054  
(410) 923-7101

FAX (410) 923-6473

EMAIL TRACONCEPT@AOL.COM

REVISIONS		APPROVALS	
<div>9-23-2004 TMZ B 5-8-1985 A 5-3-1985</div>		<div>TEAM LEADER TRAFFIC ENGINEERING DESIGN DIVISION ASST CHIEF TRAFFIC ENGINEERING DESIGN DIVISION CHIEF TRAFFIC ENGINEERING DESIGN DIVISION DIRECTOR OFFICE OF TRAFFIC &amp; SAFETY</div>	
INSTALL OPTICOM PRE-EMPTION		ORIGINAL ON FILE	
SHA NO. AT2045/05 102		SHA NO. 855-25003	
ADD PEDESTRIAN INDICATIONS		ASSUILT	
SHA NO. AW803-503-379		SHA NO. AW803-503-376	
WJR		WJR	
DATE: 6-28-1983		DATE: 6-28-1983	
DRAWN BY: W. RICHARDSON		F.A.P. NO. 1913C	
CHECKED BY:		S.H.A. NO. 1913C	
SCALE: 1"=20'		COUNTY: PRINCE GEORGE'S	
DATE: 6-28-1983		LOG. MILE: 16019803.24	
		T.S. NO. 1913C	
		T.I.M.S. NO. G492	
		SHEET NO. 1 OF 11	